Smart T6009

Fanless Embedded System

User's Guide

Rev：4.0

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Nematron®

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Notice:
The photos in this file are for illustration purpose only. The model may not be the latest version. Please refer to the product you purchased for actual specification.

1. To Open the Chassis

1. Locate the screws in the spots marked on the top cover of the system and unscrew them one by one.

2. Turn over the chassis with the heatsink side upwards. Remove the silver Myra sticker on the heatsink.

3. Remove the 2 screws in the marked spots with a screwdriver.

4. Remove the screws in the marked spots on the front panel.

5. Remove the screws in the marked spots on the rear panel.

6. Remove the heatsink side cover from the chassis for further installation.

7. For CPU installation, user needs to remove the screws on the marked spots to dissemble CPU heatsink at the mark position at first.

Notice:
1.For user to have a clear view of layout, we may unplug some of the cables during installation. In this case, make sure that the cables are plugged into their original places when necessary installation finished for the system to function normally. 2. If the system is pre-installed with heatsinks, user needs to dissemble the motherboard from the cover by removing the screws in the marked spots before CPU installation.

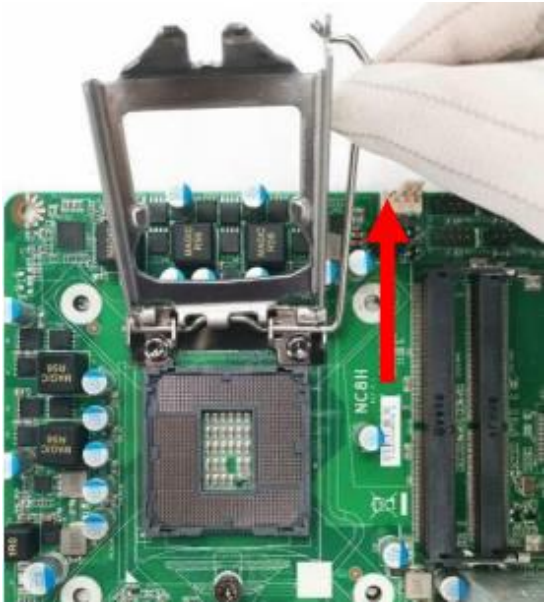
2. To Install CPU

1. Find CPU socket on the board.

2. Remove the plastic protective

Please make sure that CPU socket is facing towards you and the level is on you right hand side.

plastic cover from the socket (Put it to the original place if CPU is not installed. Do not touch the metal contact point of the CPU socket).



3. Press down the level and move it towards the right side to free it from the hook.

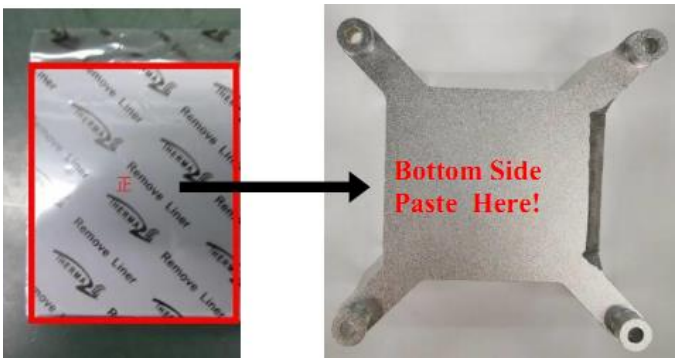
4. Open the level upwards about 135 degree and the metal protection plate will be pulled up at the same time.

5. Make sure that Pin-1 Golden Finger Indicator in the place as shown in the above photo and match the two alignment keys on the CPU with two points of the socket. CPU can only be correctly installed in this direction. Incorrect installation might cause damage to CPU.

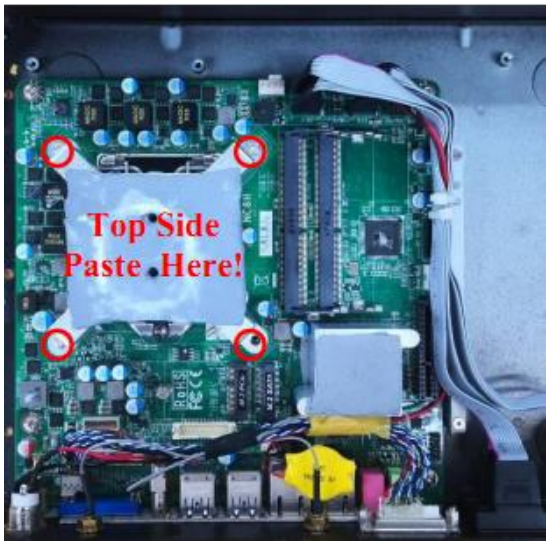
6. Put down the load plate in the direction shown above.

7. Press down the load level and move it leftwards to make sure it is locked under the notch.

3. ***To Install CPU Heatsink upon CPU***



1. Find the above CPU heatsink and CPU thermal grease package. Remove the protective films on the both sides of the grease and apply the grease upon the heatsink for better heat conduction. Apply the grease to the bottom side and the top side of the heatsink at first.



2. Lock the CPU heatsink upon the installed CPU by tightening up the marked screws. The screw holes of the heatsink should match corresponding screw holes of the board.

3. When installation finished, tear off the protective film from the greases before assembling the back cover to the chassis.

Notice:
Please restore the screws that lock the motherboard to the chassis cover and heatsink upwards when CPU & heatsink installation completed. Please refer to the step I-1 and I-2. The cables unplug during this process should be plugged to their original places after heatsink installation.

4. *To Install SO-DIMM to the board*

1. Find the SO-DIMM slot on the board for further installation.

2. Insert the gold-figure side of the compatible SO-DIMM into the slot at a 30 degree and press down. The eject tabs will lock automatically if installed correctly.

5. *To Install WI-FI Card*

Please refer to the following instructions for the installation of the Wi-FI card into M.2 PCIe slot.

1. Locate the M.2. PCIe, type-2230 slot on the board.

2. Remove the marked screw nut reserved for M.2 SATA card

installation first.

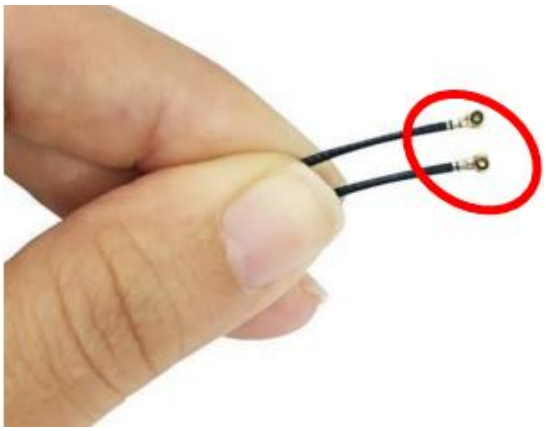
3. The screw post located on the lower side is reserved for M.2 PCIe card.

4. Remove the screw post.

5. Insert the gold-figure side of compatible card into M.2. PCIe slot. See to it that the golden-figure side is fully inserted into the slot.

6. Lock the card to the board by tightening up the screw post to the marked spot.

7. The metal hats on the end of the antenna string are sealed by acetate tape to avoid possible damage to the system.



8. Tear off the tape to find metal hats of Wi-Fi antenna string.

9. Press the metal hats of the antenna string ends to the antenna slots on the card as showed.

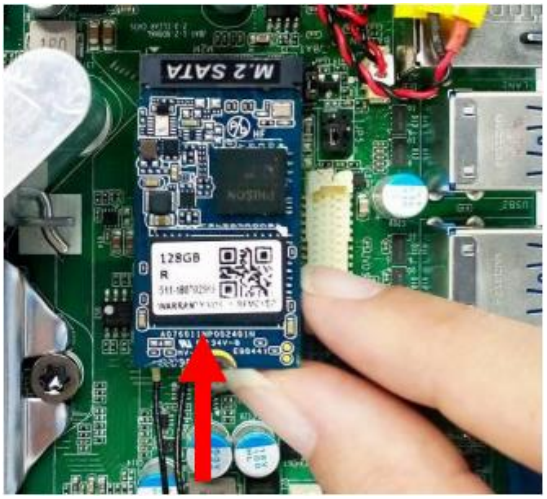
10. If you do not need to install M.2 SATA card, lock the previously removed screw to its original place.

***Note:** Please connect the external Wi-Fi receiver antenna to the antenna head on the panel after all installation steps finished.*

6. *To Install M.2 SATA Card*

1. Locate the M.2 SATA type-2242 slot on the board.

2. Remove the marked screw fixed on the screw post for M.2 SATA card installation.



3. Insert the gold-figure side of the compatible M.2 SATA card into the slot. Make sure that the golden-figure side is fully inserted into the slot.

4. Lock the card to the board by tightening up the previously-removed screw to the marked spot.

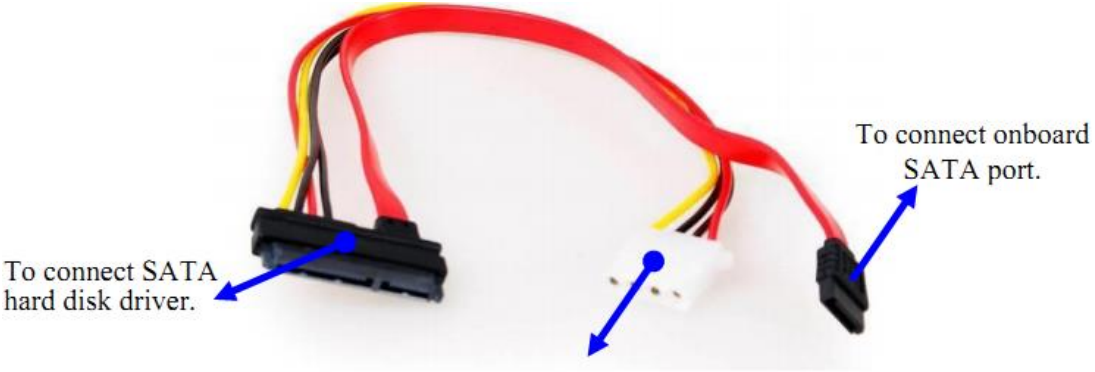
7. ***To Install Hard Disk***

1. Remove the HDD racks from the cover by unscrewing the screws in the marked places.

2. Adjust the HDD and the racks in the directions as the above photo shows.

3. Lock the SATA hard disk to one of the racks by tightening the screws in the marked spots.

4. Lock the SATA hard disk to the other rack by tightening the screws in the marked spots.



5. Find the compatible SATA cable for the system in the accessories package.

6. Plug this side of the cable to SATA power-in connector and SATA connector of the hard disk.

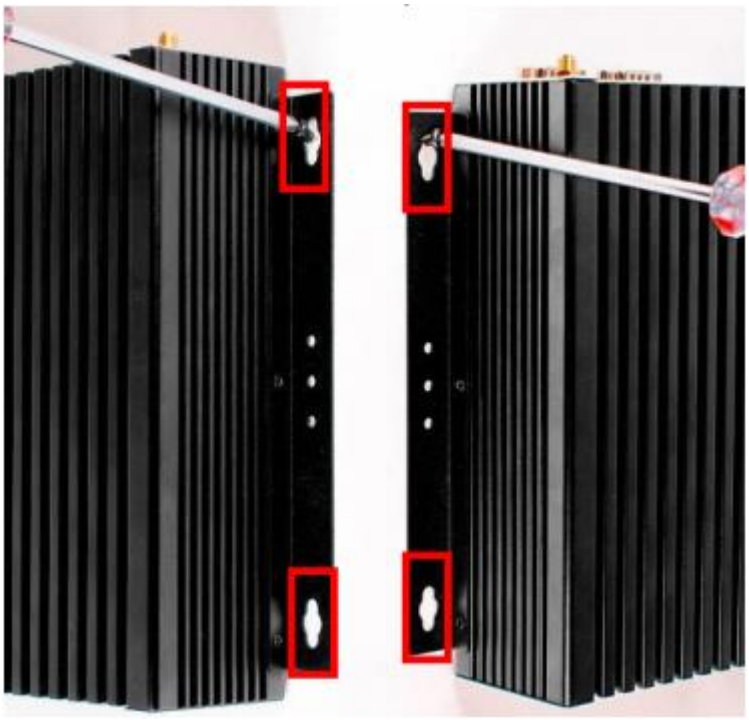
7. Lock the racks hard disk with SATA HDD installed to its original places by tightening the screws in the marked spots.

8. Plug the other side cable into the SATA power connector and SATA port connector on the board.

Notice:
When all necessary installations are finished, please make sure that all cables unplugged before installations are connected to their original places before restoring the back cover to the chassis and screws on the front panel/back panel/top cover locked to its original places (Refer to Part I). See to it that the cables inside are not blocked or pressed.

8. To Wall Mount the System

1. Install wall mount rack to the system by tightening the screws in the marked position. Then lock the other three screws on the other side in the same way.



2. Wall mount the system by tightening two screws in the marked positions. Then tighten up the other two screws in the marked positions on the other rack.

Regulatory Compliance:

Declaimer

This user's manual is intended to be used as a practical and informative guide only and is subject to change without prior notice. It does not represent commitment from our company. We shall not be liable for direct, indirect, special, incidental, or consequential damages arising out of the use of the product or documentation, nor for any infringements upon the rights of third parties, which may result from such use.

Declaration of Conformity

FCC Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at user's own expense.

***Note*:** *1.Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 2. Shielded interface cables must be used in order to comply with the emission limits.*

CE Notice

The product described in this QIG complies with all applicable European Union (CE) directives if it has a CE marking. For computer systems to remain CE compliant, only CE-compliant parts may be used. Maintaining CE compliance also requires proper cable and cabling techniques.